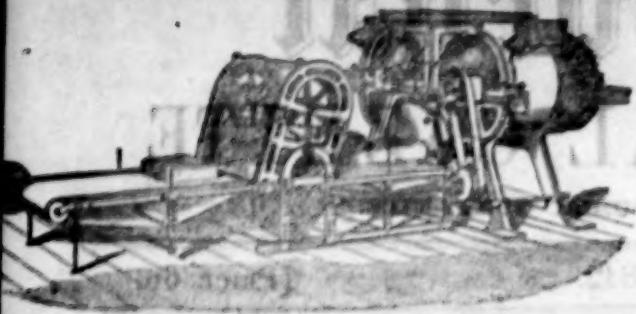


AINSLIE'S PATENT BRICK AND TILE-MAKING MACHINE.



We have been favoured this week with a view of this ingenious machine, which, examined either for the beauty and regularity of its motion, the facility with which any number of bricks, or tiles, can be produced in a given time by making it go *faster or slower*, the solidity and soundness of texture promised by the material on its leaving the machine, or the extraordinary saving effected, both in time and money, proves itself superior to anything of this kind yet introduced; the cutting part of the apparatus appears to be a novel, but beautiful, mechanical arrangement, by which the length of the tiles are regulated, by increasing or decreasing its velocity, in proportion to the power with which the clay is propelled from the chamber, and, by a simple, but perfect, application of a cramp and regulating screw the power is adjusted to the greatest safety, to overcome the friction occasioned by the tenacity of the clay, and the motion of the propelling rollers; the principle of this machine appears totally different to anything yet before the public, and we here give a statement from Mr. Ainslie's prospectus of the relative cost, in Scotland, of manufacturing drain tiles by hand, as on the old system, and by this machine:

COMPARATIVE COST OF MANUFACTURING DRAIN TILES, &c.		
By hand, making 1000 per day.	By machine, making 10,000 per day.	
One horse at 1000 ft.	600 ft.	
One horse feeding	6 ft.	
Contract with labourer at 6d. per 1000	6d.	
Gas 10d.	6d.	
Interest on machinery, 10 per cent.	9 1/2	
Cost of tiles	41 9	
	Cost of 10,000	40 14 6

Thus the cost per 1000, by hand, would be 6s. 10d., while that by the machine, including patentee's charge, is only 3s. 11d., and the quantity per day, by the old method, only 3000, while the machine could turn out 10,000 per day. Perhaps, the principal advantage is, the state in which the tiles, &c., leave this machine; being pressed through the moulds in an equal and regular manner, and formed therefrom in the *exact shape* in which they are to remain, without tort or twist, or folding of any description; the work turned out, every part of each, and every individual brick and tile, is equally solid and substantial, far more durable, and requires less fuel to burn them than by the old method. We subjoin a wood-cut of the machine, which will give one mechanical readers an idea of its use; it stands on a surface of about eight feet by six feet.

PROCEEDINGS OF PUBLIC COMPANIES.

CITY OF DUBLIN STEAM PACKET COMPANY.

The adjourned meeting of the above company was held at the office, 15, Eden Quay, on Tuesday, the 17th instant.

A. FERRIER, Esq., in the chair.

REMARKABLE read a report of the correspondence between members of the St. George Company and the Dublin Steam-Packet Company, in reference to the operations in dispute, which had not terminated amicably.—Mr. C. W. WILLIAMS observed, that in the correspondence which had taken place, there appeared a desire on the part of the St. George Company individually, to introduce a matter which went to restrict the Dublin Company as to the way in which they were to carry on their business in future, and to take, as a basis for arbitration, the reading of 1822 rather than 1820, in which they could not meet. Mr. Williams read a letter from Mr. J. H. Pinn, stating that he had resigned his agency of the St. George Company, and that he was then ready to take his seat among the directors of the Dublin Company, but that delicacy of feeling had hitherto prevented him. (The reading of this caused a great sensation in the meeting.) Mr. Williams observed, that this offer of Mr. Pinn rendered it imperative upon him to read a lithographed letter from that gentleman which spoke distinctly on the subject. In that letter he endeavoured to convey the idea that he was the originator of steps leading with Dublin, while, on reference to the date, it was seen that one was dated in 1822, but that Mr. Pinn did not join it until 1823. Mr. Williams then called on Mr. Pinn to explain what he meant by the assertion that he (Mr. Williams) had received enormous profits by the company. He strongly denied such assertion, and distinctly charged the directors of the St. George Company, of whom Mr. Pinn was one, with the mismanagement of the company, connected with the Lord Bishop's disaster on the Newry line, by which the Dublin Company had, in the course of fourteen years, been ruined to the amount of £10,000, besides the pay to Mr. Pinn individually. Had Mr. Pinn done his duty, every shilling of that sum would have been saved. Before Mr. Pinn had charged him with receiving enormous profits, he should have remembered the time when he was receiving but little, yet now, for devoting his whole time and attention to the interests of the company, while Mr. Pinn received £100, per annum for doing nothing, and refused to share a shilling.—Mr. Pinn read a letter from Mr. Williams, and proceeded in proof that he was not responsible for the opposition between the two companies.—A PROCESSION asked in what capacity Mr. Pinn received £100, a year?—Mr. MULHOLLAND said an adjourned meeting, a population of forty-five proprietors, or six directors, could expand him.—Mr. MULHOLLAND said there were two important questions to discuss—first, whether they should incur another loss of £10,000 a week; and secondly, whether they should re-constitute the St. George Company?—Mr. Deane proposed a resolution to the effect, "That the directors, proceeding as they do the full confidence of the proprietors, be called upon to meet the opposition of the St. George Company, in the most vigorous manner conceivable with principle and honour."—Mr. Deane then moved, "That the thanks of the proprietors of Dublin, and the freight paying present, be presented to the directors, for the judicious measure in which their interests had been uniformly attended to by them," which was carried unanimously.—Mr. Deane said that as the proprietors would retain some salary, it was quite necessary to curtail the expenses. He knew of no office they could dispense with but Mr. Pinn, and moved, "That the trustees be empowered to remove Mr. Pinn, and pay him no more salary."—After some discussion, in which Mr. Mulholland expressed a hope that Mr. Pinn would prevent any further public display and outrage, Mr. Wallace moved, as of adjournment, that the meeting do adjourn.—The Chairman read the adjourned, and declared it to be carried by a majority vote.—The meeting was adjourned accordingly.

WILKESBOROUGH AND TURF STEAM TUG COMPANY.

At the stated meeting of the shareholders in this company, a vote of confidence was passed in each director. It appears that great dissatisfaction has existed among a majority of the shareholders, as to the management adopted by the committee; and Mr. Leman, solicitor, of York, acting as the representative of many of the York shareholders. On enquiring thereto, it was found that a Mr. Justiss, book-keeper, of Middleborough, was wholly in possession of the books. This caused some dissatisfaction, as it was stated he held only two shares, but the business was allowed to proceed. The regular object, that up to the end of March last, the committee were pleased to bring forward—improvements were making, amounting to £1000, and £1000, owing to the banks, without any notice of making such heavy improvements, but having disposed of the business, they were enabled to get off the greater part of the debts. It recommended the writing off the losses, which had been incurred against the stock account, and allowing the directors to sue losses to pay the balance still owing to the banks. The total amount of the company for the year had been £1000, less, £100, and the engine account £100, £60, showing a loss of £100, while on the quarter ending August 1st, there had been a profit of £15. In—Mr. Leman's report of general business to the history of the company and its present prospects, he represented the former management of the general committee, which, if governed so, would ultimately incur the loss of the entire capital of the company. The latter proposition had, however, not come into operation, and was determined to await the progress of the last call of £100 per share, with a proper investigation of the price. He pointed out a potential depreciation of their capital, by allowing money to be invested out of pocket for shares without, first being accounted for. The dissolution of Mr. Justiss, the book-keeper, had excited much interest, inasmuch as he retained these, and throughout the past negotiations of the members of the company, from the first the most complete confidence in the integrity of the propositions.—Mr. P. Williams, member of

the committee, took the part of the committee, and endeavoured to show that they had acted all through in perfect good faith, though they had been unfortunate in some of the results of their management. He proposed an amendment, for the purpose of setting aside Mr. Leman's motion, which, however, was carried by a majority of 411 to 237; on which Mr. Fawcett's party would not allow the votes of the York shareholders, the Chairman deciding the votes were bad.—Mr. LEHMAN then proposed, "That Dr. Rawdon take the chair," which was seconded by Mr. HODGSON, and a majority was the result; and here a scene of indescribable confusion ensued, which lasted some time.—Mr. Leman and Mr. Fawcett withdrew, and Dr. Rawdon and Mr. Falshaw followed. On their return, it was stated by Mr. FAWCETT that an amicable arrangement had been come to.—Mr. LEHMAN then proposed the following resolution:—"That the committee to be now appointed for the future management of this company be, and they are hereby directed, to take measures for the sale of the several steam-vessels belonging to the company, as soon as conveniently may be; and that, in the meantime, the committee let the vessels for the best price, and on the most advantageous terms, that can be obtained for the same—taking security for the payment of the rents monthly, for the due preservation of the vessels, and for the delivery up of such vessels by the occupier to the committee, upon receiving one month's notice in case of the sale thereof."—Mr. FAWCETT having seconded the resolution, it was carried unanimously.—A new committee was appointed, as well as trustees, auditors, &c. The new committee met immediately after the meeting, and lost no time in acting upon the directions they received.

BRITISH SHIPPING COMPANY.

On Tuesday an adjourned special meeting of the proprietors of this company was held at the George and Vulture Tavern; the chair was taken by Mr. PERKINS, when a long discussion ensued amongst the proprietors as to the affairs of the company—the expense and business of the management, and the necessity of a dissolution, being the principal topics. The directors having referred to the charges brought against them, and the propriety of dissolving the company having been submitted, a record of the votes was taken by the secretary, when the CHAIRMAN informed the meeting that the number of the shares present being so much under the number limited in the Deed of Settlement, the object of the resolution could not be carried out by the directors. The meeting, consequently, adjourned.—[The absence of so many proprietors, and this being the second meeting for discussing the property of a dissolved company, would seem as if the business of management was not generally entertained by the company, but that the depression of the affairs must be greatly attributed to the distressed state of trade and commerce generally, in which the company had only participated.]

MANCHESTER AND SHEFFIELD RAILWAY COMPANY.

A special meeting of the shareholders of this company was held at Cutler's Inn, Sheffield, on Wednesday, the 16th inst., M. ELLIOTT, Esq., in the chair.—The CHAIRMAN having explained the objects of the meeting, which was, to give the directors special power to borrow £10,000, of the Exchequer Bill Commissioners, and stating that such subject alone could be discussed, Mr. STEPHENSON, the engineer to the company, read the resolutions of the directors, which were, to borrow £10,000, now, and £10,000, hereafter; and that the directors for the time being have authority to borrow not exceeding £100,000, as they might think advisable.—Mr. PARKER observed that the object was to borrow money, but he did not agree with the Chairman that no other question could be opened. He, as a lawyer, considered the general business of the company might be discussed, and it was also the opinion of an eminent equity counsel, with whom he was acquainted.—The CHAIRMAN said he also had had counsel's opinion, which coincided with his own; and after some conversation between Mr. Parker, Mr. Stephenson, and the Chairman, the resolution was carried, the only dissentient being Mr. Parker.

MIDLAND COUNTIES RAILWAY COMPANY.

A special general meeting of the shareholders in this company was held, pursuant to a requisition of shareholders, at the Athenaeum, Derby, on Friday, the 18th instant, THOMAS DILLEY, Esq., in the chair. The requisition was addressed to the directors by Mr. JAMES HAYTORTH, of Manchester, who stated, in a very long address, that the meeting was deemed necessary, for the purpose of considering the best means to be adopted in making an effort to raise the value of these depreciated and still sinking property. A reduction of the salaries of directors and officers of the company, a system of almost retrenchment and rigid economy, and a lopping off of all useless appointments must take place, before the shareholders could hope for any proper return for the capital expended. Even a slight rise in the fares might be reflected to with success, without a fear of diminishing the returns; and to effect these important alterations in the best manner, he recommended a committee of inquiry, which was strongly opposed. A ballot was demanded, and the numbers were—For a committee of inquiry, 4024; against, 3309; in favour of a committee, 715. It was then moved by Mr. JAMES HAYTORTH, and seconded by Mr. O. HAYTHORN, "That a committee of shareholders, notwithstanding directors, be now appointed, to make full inquiry and examination, with reference to the past, present, and probable future expenditure of the company, and to the general management of the company's affairs, and report thereon. The committee to consist of Messrs. James Heyworth, John Waddington, Joseph Gips, John Ormeval, W. C. Horne, W. Morley, and G. B. Pigot."—That the directors, officers, and servants of the company, do afford such committee all the assistance in their power, by the production of books, papers, &c., and by explanation, &c. "—And, "That as soon as the committee have agreed upon their report, the directors do call another special general meeting of the shareholders with reference thereto." These resolutions were severally carried, a vote of thanks passed to the chairman, and the meeting broke up after having occupied seven hours.

MINING CORRESPONDENCE.

ENGLISH MINES.

From a Correspondent.—The steam-engine at Llanberis, Conwy Mine, was put in work on Tuesday, and great expectations are entertained of its working; things are looking well at St. Catherines, and it is confidently reported that, at Blaenau, operations will be resumed in about two months.—[We should feel obliged to correspondents for forwarding information respecting mining operations in Cornwall or other counties, which will receive ready insertion.]

HOLMEBOURNE MINING COMPANY.

No. 21.—Hitchins's shaft is sunk below the thirty fathom level 5 fms., 3 ft. 6 in., and is still progressing in favourable ground. In the 110 fathom level west the hole is ten inches wide, and worth 6d. per fathom; the hole in the white, sinking below this level, is six inches wide, with a small proportion of ore. In the 100 fathom level west, the hole is fourteen inches wide, and worth 12d. per fathom; at this level east the hole is small and unproductive; but the out-sink of this level, towards the Flag-jack hole, continues to hard ground; the hole in the eastern steps, in the back of the 100 fathom level, is still two feet wide, and worth 6d. per fathom; in western steps, in dills, the hole is twenty inches wide, worth 12d. per fathom. In the thirty fathom level west, we are still descending towards the hole; the hole in the eastern steps, in the back of this level, is eighteen inches wide, and worth 12d. per fathom; the hole in the middle steps, in back of this level, is eighteen inches wide, and worth 12d. per fathom; and the hole in the western steps, in back of dills, is eighteen inches wide, worth 12d. per fathom. In the eighty fathom level, west of Hitchins's shaft, we are driving south to cut the hole west of the large cross-course; in this level east the hole is eighteen inches wide, producing good staves of ore; in the cross-cut at this level, towards the north hole, the ground continues favourable for driving; the hole in the steps, in the back of dills, is fifteen inches wide, worth 12d. per fathom. The sixty-two fathom level east is without alteration. In the twenty fathom level east the hole is ten inches wide, composed of sandstone and spar. The bottom pitch is made the same as for mine work past.

FRANCIS PHILLIPS.

No. 22.—I am glad to state that the hole, in sinking the engine-shaft, continues to be worth 6d. per fathom in depth, to the length of the shaft, we have three feet more to sink to reach the thirty-four fathom level, which we hope to accomplish in the course of a few days. The fifty fathom iron is still passing through moderate ground; this level is extensive about forty fathoms to the west of Blaenau's shaft. In this level east we are obliged to make and fit a new one, which occupied about half a day, during which the water rose twenty yards, which, however, did not overflow, and the water subsided again in about two days. The heavy load on this engine, and its necessary rapid rate of working, exposes us to three frequent accidents, but which, however, we may hope to be relieved, when the dishes are now established on the crevices and branches we may meet with. At Blaenau, the bottom workings have been covered with water during the last fortnight, owing to the breaking of the main pipe of the principal underground iron-works of Taff Vale engine, which caused the destruction of the iron, but we were obliged to make and fit a new one, which occupied about half a day, during which the water rose twenty yards, which, however, did not overflow, and the water subsided again in about two days.

JAMES NICHOLS.

No. 23.—Seventy fathom Level, Blaenau. East—Lode three feet wide, coarse in quality; western end, hole three and a half feet wide, the hole six to the north part only. Fifty fathom Level—Nothing done for the past week in the eastern end of this level—the men have been engaged raising down the eastern shaft; in the western end the hole is five feet wide, two feet of which is producing ore of fair quality. Fifty fathom Level—The hole is two and a half feet wide, eighteen inches producing good ore. James's Shady—Lode three feet wide, intersected with some good bunches of ore. Forty fathom Level—Lode about four feet wide, producing some good staves of ore.

NORMAN LANCELOT.

No. 24.—The hole the seventy fathom level is two feet wide, with some good staves of ore. The fifty west is one foot wide, and worth 6d. per fathom. The forty west is three feet wide, with good staves of ore. The forty-east is one foot wide, and worth 6d. per fathom. The forty-west is also one foot wide, and worth 6d. per fathom. The thirty-four fathom level is worth 6d. per fathom.

TRELEIGH CONSOLIDATION MINING COMPANY.

No. 25.—The eighty, east of Christow, is three feet wide, with stones of ore; this level is driving to cut the hole. The sixty west is three feet wide, with some good staves of ore. The fifty west is one foot wide, and very kindly. The fifty west is three feet wide, with good staves of ore. The forty west is three feet wide, with good staves of ore. The forty-east is one foot wide, and worth 6d. per fathom. The thirty-four fathom level is worth 6d. per fathom.

WILLIAM SYMONS.

WEST WHEEL JEWEL MINING ASSOCIATION.

No. 26.—The ground in the eighty-five cross-cut, south from Bucking-ham's, is still hard for driving. The seventy east, on the south branch, is worth 6d. per fathom. The seventy east, on Wheal Jewel inde, is worth 18d. per fathom, and the ground is more favourable for driving; this level west has not been taken down. The fifty-seven east, on Wheal Jewel inde, is worth 6d. per fathom; this level east is fifteen inches wide, spar, sandstone, and black ore; the white under this level is worth 10d. per fathom.

STEPHEN LEAN.

TRETOOL MINING COMPANY.

No. 27.—The hole in the forty fathom level, east of Williams's shaft, is two feet wide, very good tributary ground. The hole in the forty fathom level, east of Headrow's shaft, is fifteen inches wide, very good tributary ground. We have not made much progress in driving west at this level, in the past week, the men having been engaged cutting a pit, to prepare for sinking to the fifty fathom level, which we hope to be able to finish in a few days, and begin to sink. We have just cut the hole at the thirty fathom level, east of Headrow's shaft, to the east of the cross-course, but cannot at present report its size or quality, it being still disordered by the cross course. The small part of the Slide Park hole, at the adit level, west of John's shaft is small and unproductive. The tin hole is the back of adit level, east of Morris's shaft, is much as last reported.

JOHN MORCOM.

FOREIGN MINES.

BOLANO'S MINING COMPANY.

[The following statements have been forwarded by a correspondent, whose letter will be found in another column:]

Advises received by the company from Mr. Flores, dated Zacatecas, August 27. I am sorry they have been unable to San Clemente, to pay costs in August, but I am still in hope that the result of the quarter (ending 30th September) will come out according to my estimate (£25,000 the company's share). Observing the large extent of unworked ground in San Clemente vein, east of the Tiro General, below La Loma level, I have ordered examinations. The vein is one and a quarter vara wide, with a small proportion of argenteous, of good quality; it has a promising appearance. Last month I noticed that the level Dies nos Guie, east, had been communicated to the workings of El Cordon old mine, in which, during the last two weeks, we have been sinking a wind 120 varas east of San German shaft; the vein in this place is divided into two branches—the largest about one-third of a vara wide; three varas sinking in it produced twenty-one cargas of ore, containing upwards of twenty marks per metric ton. Our sinking was interrupted by water, but was resumed on the 15th instant, the water having disappeared. At Rondeiros, in Malacocha, the drainage proceeds regularly, and at Santa Barbara now leaves seven or eight varas only to the bottom of the shaft. San Rafael—The appearance of this vein is still very favourable. Veta Bella—The vein in the adit, driving east, continues three-quarters of a vara wide, with a small quantity of useful ore. The ores raised in August, from San Clemente, are 570 cargas; ditto raised from San Nicholas, 1779 cargas.—Total, 2349 cargas. The same quantity is expected in September. The profit from San Nicholas, in August, is £10,535; the loss (or, rather, excess of costs over produce) is £1,000, leaving a profit of £9,535.—I expect to send from this district, by the October conducta, £25,000.—[This remittance may be expected to arrive by the Royal Mail steamer due 3d December.]

District of Bolanos, Sept. 10.—The six months' new agreement having expired, and no change decidedly favourable (in Barrancos) having taken place—but, on the contrary, the five months showing a loss of £25,749—the first week in September the company will have retired from Barrancos, and have no other right upon the mine except the machinery, nor any other expense but that of removing it. The loss for August will be about £1800, so that the apparent loss of the six months will be nearly £27,000; but, from our improvements in concentration and barrel amalgamation, the difference in the value of our stock of ore (this stock, at Bolanos, was, in July, 31,400 cargas) now, from what they were formerly estimated, will probably show an increase in value of £12,000 or £14,000—thus reducing the real loss in six months, in this district, to £19,000 to £13,000. The estimates and mine reports will be forwarded next week. I have just sent from this district £6000 marks (equal to £41,000) of silver to Guadalajara (to be coined), and, perhaps, shall be able to send an equal quantity by the beginning of November, so that a good part of the supplies made to these mines (from the company's Zacatecas district) since February last will be repaid.

days, 55½. *Arras.*—Three tons of sand, accumulated from the upper stamp, which had undergone no process, save that of streaking, were concentrated, and fourteen cubic feet resulting from the concentrating ground by the arrastræ, the result gave 15 cts., or 5 cts. to the ton. *Mine Report.*—The mines are extending east and west at Châlons and Louisa, the workings on the latter side to hill are of much interest, there is an alteration to report in the lodes except that in the eastern end of the Dhu shaft, more ore is seen, which cannot be avoided of, the inclined drawing shaft being as flat as it can be laid down, to allow the kibbles to travel. House-dam is as firm as the country; thirty-four feet of water in the reservoir. You may, with all confidence, rely upon its strength and future efficiency, and that the down-pouring of tropical rains are amply guarded against. Health of Blacks.—As usual, at this season, the sick list is swollen by cases of pleurisy and fever—twenty-six in hospital.

Sep. 18 and 29.—Average number of heads working eighteen days, 55.07. In the beginning of the month the water decreased in the rego, and the Herking carried only nine heads. We have had a few showers of rain, and have a small supply of water in the reservoir. Powder.—We received Tropeiro's receipt for saltpetre sent from Rio, and hope to pick up sufficient in the neighbourhood to supply the mines till it arrives. Dam.—A large force employed upon it daily to complete it before the rains set in, which will be effected, unless the rainy season sets in earlier than usual.

UNITED MEXICAN MINING ASSOCIATION.

Guanajuato, Sept. 9 and 26.—I beg leave to refer to the enclosed duplicate of my letter to the court, dated the 26th ult.

Mines of Bayas.—There is nothing of interest to communicate to the directors, on the present occasion, respecting the actual produce or the workings of this mine, the former having continued much the same, and the latter without any improvement, since the date of my last dispatch. The returns made up to the 10th instant are as follows:—viz.:

Mine sales.	4 Buncos sales.	Total.	Ans. memoria.	Net surplus.
Aug. 26 ..	\$3844 2 0 ..	\$3844 7 4 ..	\$6129 1 4 ..	\$2265 5 1 ..
27 ..	3996 7 4 ..	3994 8 6 ..	5081 3 0 ..	4999 3 6 ..
Sept. 3 ..	2652 6 0 ..	2387 1 0 ..	3780 7 0 ..	1139 7 2 ..
10 ..	3619 6 0 ..	1674 4 4 ..	3424 2 4 ..	2031 3 1 ..
				2347 7 1 ..

Making together \$6625 3 5

and of which the association has received the sum of \$4484 7 7, corresponding to the 130 bars mortgaged for the payment of the mine debt, thereby reducing the latter to \$932,128 4.

Royal New Charter.—This subject, as mentioned in former letters, continues in abeyance.

Quicksilver.—I beg to reiterate the suggestions made to the court in my last letter, in respect to the resumption of the former monthly supply of sixty bottles of this article, and, at the same time, to request their immediate attention thereto, as notwithstanding the 200 bottles already sent, the periodical supply so requested, will, in all probability, be required for use here, quite as soon as it can be purchased and forwarded by the directors; considering the time usually spent between the landing at Tampico, and the delivery here, usually about six weeks, and, in some instances, as much as two months.

Bentimines.—The next Tampico conducts will, it is expected, leave a month earlier than the time originally named—say about the 1st of November, and by it a remittance will be made to the directors, which, judging from my actual ways and means, will range from \$30,000 to \$40,000.

BRAZILIAN COMPANY.

The following letters relate to the Concepcion Mine:—

Concepcion, Sept. 3.—Mr. Harding's report of the 25th ult. must, I think, have extinguished all hopes which remained with you as to your affairs here ending prosperously; but, if not, that which I deeply regret being under the necessity of now having to make, will unquestionably do so. On the 25th you have been told, that, from the water increasing so rapidly in the second, or eastern box, the sinking the small box within it was discontinued, and another within the first, or western box, placed, in the hope that, by its means, when forced enough down, the water in the first would be relieved. After every effort had been made to accomplish this object, it was found wholly impossible to get it beyond two feet down. An iron pipe was then tried, but, with every exertion which could be made, it could only be got down seven and a half feet—still five and a half feet short of the bottom of second box—precluding, consequently, all hope, that, in that way, the water in second box could be relieved. Having, therefore, well weighed our position, and having had Mr. Harding's and Captain Bryant's views upon the same, I have directed Mr. Harding (being myself obliged to return to Cata Branca) to make the three following attempts:—First, to again try and clear up the second box, and the bottom of which, south edge, I feel satisfied must have cut, or be on the line. If that fails, to endeavour, by keeping the water in the second box as close down as possible, and which might reasonably be presumed would drain the Fundao, to reach its (the Fundao's) bottom, or, on failure of both these, to make a run in ninth or tenth rods, or both, in the hope of, in that way, getting enough down in the box, or in the Fundao, to see the line where last worked by the former proprietors. This will occupy the ensuing week, when, if all proves unsuccessful, I have directed Mr. Harding, in accordance with your instructions for my guidance under such circumstances, to immediately close the affair. I must here observe, that the line under the old level has been proved in divers places, and the whole between the second and next Fundao taken out, but, with the exception of one, none of the many samples showed anything. As I shall have no shortly to address you fully upon all points relating to this speculation, I forbear now trespassing further upon your time, than to assure you that every attention shall be paid both to your instructions and to the interests of the company.

Cata Branca, Sept. 9.—My last letter from Concepcion informed you of the slender chance of success which remained for us there. Yesterday a few lines from Mr. Harding reported that all was over. They had got down upon the Fundao's to within three feet of its bottom, when both sides and back began to give way, and the liquid jettisoned flowed so fast that it could be removed, and before the men were out of it ten minutes was as high as ever. The run in the ends below was then tried, but without the slightest effect. Under these circumstances, Mr. Harding, in compliance with my directions, stopped proceedings, and applied all hands to collect such of the materials as it will suit this establishment (Cata Branca) to purchase; the men will also come here. Every exertion shall be made to close all connected with this unfortunate speculation (it will not take long), and, when completed, I will address you fully upon every point. I need not tell you how deeply I regret having to make this communication.

W. COTSWORTH.

MINING NOTICES.

BRANCHFETH COLLIERY.—On Tuesday last, the owners of this colliery had the satisfaction of conveying their first parcel of coals from the interior to the place of shipment. On that day a train of coal waggon, accompanied by a coach train, bearing the owners and their friends, proceeded from the colliery in Blackton by the Clarence Railway. The procession displayed several flags, one of which, provided by the workmen, bore the inscription, "Branchfeth Colliery—Quality, Strength, and Durability," and the procession was loudly cheered by the workmen on different parts of the line. On the following day, about 100 children were despatched to Port Clarence for shipment. The quality of these coals is universally admitted to be the best that have been brought to-day in the Western coal-field in this county. The colliery has been "won" in an unprecedentedly short period. The ground was only broken on the 22nd of October, 1841; and, including the sinking to a depth of fifty fathoms, forming and laying a railway about two miles in length, and erecting a bridge across the valley of the West, the whole has been completed and the coals sent to the port of exportation—a distance of twenty-four miles—in the short period of one year and eighteen days.—Darton Adr.

MINE ACCIDENTS.

Pennardoor.—James Price was killed, on the 18th instant, in a fall at Pennardoor, by some rubbish falling on him.

Clog O'Ness.—Last week one of the engine-boilers exploded at the black shale pit of Messrs. G. Stephenson and Co., Clog O'Ness. The engine was going at the time, drawing coals, and a number of workmen were variously employed all about it, but providentially no one received the least personal injury, although large stones, bricks, and other materials, were thrown up to a great height in all directions, and, in their descent, fell on those upon the engine-house, that the roof was like a sieve, with their falling through it. The boiler was seen to rise up in the air higher than the engine-house, and a few yards distant, with its bottom uppermost.

Wingate Grange Colliery.—At Wingate Grange Colliery, on the 18th inst., and, for the purpose of making a easier road to the shaft, they had imprudently taken down a "head-tree," which had been caused to descend a mere of air to the distance that would have rendered the most, when a quantity of inflammable air exploded, whereby Dickenson was killed.

Great Laxey.—C. Morgan, whilst in the act of propping the roof of Crofton pit, was severely crushed by a stone falling upon him, from the effects of which he shortly expired.

Wonderful Powers of Mind.—Last week, at Timperley, a man named T. Reynolds was engaged in working a nail in the nail-mill. He had prepared the blasting, and having attached a fuse, was being drawn up, when the rope broke, and he was precipitated into the bottom, a depth from whence to three feet of twenty-five feet. So great was the concussion that one leg was broken in three places, his skull fractured, and his spine dreadfully bruised; he had, however, sufficient consciousness and powers of mind to watch the ignited fuse from the charge (although in doing so his collarbone was further aggravated by bursting his hand), and thus prudently escaped a catastrophe in which death would have been inevitable.

PROF. VIGNOLE'S LECTURES ON CIVIL ENGINEERING, WITH PRACTICAL ILLUSTRATIONS.

LECTURE 16 (SECOND COURSE).—The result of the examination into the expense of passenger traffic had been investigated in the last two lectures, and a general average cost had been deduced, varying from two-thirds of a penny to one penny per mile per passenger, including the Government duty, the fraction varying, of course, with the number of passengers in the train. It would not be necessary to go so minutely into the items of corresponding expense of merchandise and mineral traffic, nor would this last lecture but one of the course allow sufficient time to do so. Mr. Vignoles said he should endeavour to compress what he had to explain further about railway expenses into this evening's address, and, in the concluding lecture, he would take a general review of the whole of his course on railway matters. The cost of carrying coal, at very moderate velocities, on the great colliery railways, is about one penny per ton per mile, which may be divided into the following heads:—viz.

EXPENSE OF TRANSPORT OF COAL.

	Decimals of a penny.
Locomotive power	.08
Waggons	.12
Constructing traffic	.08
Maintenance of railway	.05
General expenses, including local taxes	.14

Per ton of coal per mile25

The proportion of the weight of the coal to the gross load carried being as 3 to 5. The expense of carrying goods on the Liverpool and Manchester Railway, taken on the average of seven years' traffic, appears to be about 2½d. per ton per mile, divided as follows:—viz.

EXPENSE OF TRANSPORT OF MERCHANDISE.

	Decimals of a penny.
Locomotive power	.05
Waggons	.10
Constructing traffic	.05
Maintenance of railway	.05
General expenses, including local taxes	.05

Per ton of goods per mile25

But in this sum is included a considerable item, which does not properly belong to the railway itself—viz., the cost of collecting and delivering the goods all over the towns at the two termini, by carts and waggons, and full 1d. per ton may be taken off for this item—making the total expense 2d. per ton per mile—the proportion of useful weight, of weight of merchandise carried, to the gross weight, including the waggons, being as 1 to 2. We have now the results of many years' working expenses of railways for passengers, as we have investigated in the last two lectures, and, as above, for coal and merchandise, which may be tabulated thus:—

EXPENSES OF RAILWAY TRANSPORT PER MILE.

Passengers (at high velocities)	1d. each.
Coal (at very moderate speed)	1d. per ton.
Merchandise (at fifteen miles an hour)	.2d.

Reducing the expense of passenger traffic to a tonnage—taking the weight of twelve passengers and their luggage as being, on the average, equivalent to a ton—we obtain 1s. per ton per mile, which is twelve times the expense of carrying coal, and six times that of conveying goods. A portion of this difference, but not all, is due to the velocity, for, though it would seem that this doubles the cost of goods, as compared with coal, it is not so in fact, as a large proportion of expense is incurred in the handling and office work necessary for merchandise traffic, to which coal is not liable. Comparing the proportion, between the useful or paying load, and the gross weight moved, including the vehicles, we have, coal 3 to 5, merchandise 1 to 2, and, as explained in the preceding lectures, passengers 1 to 6, and often more. The consideration of the comparative view in this light led Mr. Vignoles to observe, that notwithstanding the apparent difference, there is a great analogy between the proportion, as regards goods and passengers, for, if the passenger trains could be fully loaded, the proportion between the profitable and the gross load would be nearly the same, both for passengers and merchandise, the result being almost similar, as regards the actual weight to be transported and the preparation to be made for moving the mass—at the same time, it was an additional and collateral proof that the figures laid down in the above general terms by the Professor might be depended upon. On colliery and mineral railways the traffic is arranged so as to carry the maximum profitable load on a minimum weight of vehicle; supposing coal and merchandise were really conveyed on equal terms in everything except speed, the difference in velocity would appear to effect a saving of one-half. This, however, is not the case; the difference of expense due to velocity, may, perhaps, be stated at from 30 to 60 of a penny per ton per mile as a maximum; the remainder of the difference is chargeable to the mode of conducting the traffic; and, in reference to the passenger trains, it should be borne in mind, that it is the necessity of managing the fluctuation of passenger traffic, and, in order that the public may be accommodated, that, taking weight for weight, it costs railway companies six times as much to convey passengers as to transport goods. On the other hand, ten years' experience of the working of the Liverpool and Manchester Railway produces the result that their profit upon the conveyance of a single passenger averages the same as the profit on the carriage of a ton of merchandise. But why?—On that line, there being a great competition with the river and canal navigation, the rate of charges for goods has been brought down to the lowest terms, for the utmost possible extent of accommodation of warehousing, delivery, &c.; but there being a practical monopoly in the conveyance of passengers, the fares are not quite so a maximum, but still very high. Mr. Vignoles observed, in applying these facts, that it had been one of the objects of those lectures to show, and he wished to enforce it on the minds of the class, as a useful and easily attainable result, that by sending trains more frequently, with fewer carriages, and by constructing them carriage to a better proportion between the paying and the unprofitable load, the increased accommodation would bring increased traffic; for, considering that the expense of transport is but little affected by the number of passengers, by such increase the expenses, as computed per passenger per mile, might be fairly calculated as susceptible of being reduced from 1d. to 1d.; supposing every other condition to be as at present: another advantageous consequence would be that of keeping the engines above their work. Such an arrangement of trains has greatly upon the important question of what amount of extra expenditure on railways could be fully justified by prospectively consequent beneficial results; but the Professor said he could not again enter into the question of gradients. The necessity of perfect gradients assumed maximum loads as generally occurring, whereas exactly the opposite was the case in practice, especially with passenger trains, and on lines to districts not adjacent to the metropolis or our largest commercial and manufacturing towns—indeed, it is remarkable how nearly alike in all railways where gradients differed greatly, were the working expenses per train per mile. On the North Union Railway, for example, where free miles out of twenty-two are at an inclination of fifty-three feet per mile, the mileage expenses of working trains is quite as small as upon railways of which the gradients are nearly horizontal; and it was found that up to six or eight carriages, or from that number even up to ten vehicles per train, no very material mileage difference of working expenses results on lines with what are called comparatively favourable or unfavourable gradients. Mr. Vignoles then referred to a former lecture, wherein he had considered how far beyond 10,000 ft. per mile, as the total cost of any given line of railway, it was justifiable to incur increased expense in the formation, to obtain more perfect gradients, or to make the railway steeper. He observed, that the late Irish Railway Commissioners had distinctly shown, by a different process of reasoning, and on different data, than any since since this was done, that it was advisable to adopt gradients of 1 in 30, and to 1 in 40, and that this was the best system. The working expenses per train per mile, the cost of construction, and the cost of maintenance, were the same as on the lines of 1 in 20, and 1 in 30, and the cost of working was less on the former. The working expenses per train per mile, the cost of construction, and the cost of maintenance, were the same as on the lines of 1 in 20, and 1 in 30, and the cost of working was less on the former.

PARENT GUIDE AND SCREW STOCK.—Messrs. Whitworth, of Manchester, have introduced a new guide stock, which will set a screw but little inferior to that obtained in a slide lathe; the thread produced is quite true, of the exact pitch required, and perfectly formed throughout, without distortion of the metal; the defects of the old stock are quite avoided. The pitch is simple, but perfect; in the frame of the stock a fixed die, forming, by a division, two parts of the cutting threads; of proper diameter are two moveable dies, brought up or down by means of one screw; not on the outside of the stock, and thus regulating the size of the tap; this invention will place a perfect screw-cutting machine in the hands of many who could not obtain screws from the lathe without much trouble, and yet whose previous work requires them of the finest formation.

ARMEDRAKE RAILWAY BILL.—Mr. R. Thomas, of Falmouth, in a letter addressed to the Editor of the *Political Register*, calls the public attention to this proposed line of railway. He expresses his disappointment of the observations in Mr. Vignoles's lecture, at the Polytechnic Institution, at Falmouth, asserting that the atmospheric system was the only means of securing railway communication in that town, noting that it may tend to distract parties who are interested in such line. He states, that however singular Mr. Vignoles may be in the merits of the atmospheric system, he has strong doubts as to its potential efficiency, over long lines of road, arising from the necessary, and somewhat uncertain, expense of stoppages and delays, which may arise from such system.

HARVEY WOODS-HORN.—A friend of ours, who has just returned from Antwerp, informs us that he has landed on the quays there, from a vessel arrived from Newcastle, a large coil of wire-rope, which was much much damaged. It was stated to be 1,000 yards in length, and to weigh twelve tons, and to understand that it had been purchased by the Belgian Government for the intended inland line of the railway from Antwerp to Liège.—*London Paper*.

RAILWAY COMPENSATION.—A compensation case between the Great North of England Railway Company and Mr. W. Walker, of Darlington, was tried at the King's Head Inn, Indict. W. E. Walker, Esq., Darlington, which was wounded for the railway. After a number of witnesses on both sides during the session of two days, had been examined, some valuing it at £1000, and others only at £600, the jury gave a verdict for £600. Mr.

REBATE OF THE DUTY ON COAL.—The following letter has been received by Messrs. J. and W. Kirk, Glazebrook, etc., Darlington, Nov. 3, 1842.—Messrs. Morrison, Valentine, and Gaze, in reference to the reduction of the duty on coal in India, from about 2d. to 1d. per ton, to have effect from this day, and will be sent post haste the pleasure of writing more fully.

Sir,—It is understood that a very important improvement has been made in the manufacture of gas on St. Eustace-street, by which the required pressure for the complete combustion is reduced from 100 pounds to 100 feet, and the work of burning more rapid. The

gas taken, and the total annual cost of working various railways, were taken, and also the corresponding

ANTHRACITE IRON.—CRANE'S PATENT.

TERMS FOR LICENSES FOR SMELTING IRON,

BY THE COMBINATION OF ANTHRACITE AND HEATED AIR, MAY BE HAD BY APPLICATION TO THE SOLICITORS OF THE PATENTEE,

MESSRS. WATKINS AND HOOPER, 11, SACKVILLE-STREET, LONDON.

By the use of this process, it is believed that the whole of the veins of anthracite in the South Welsh Seats, amounting in the aggregate to 513 feet in thickness, are applicable to the purpose; all those above, and including the brass vein, being nearly 40 feet of the whole, have been successfully used by the patentees at the Yattonwys Iron Works, near Swansea.

The consumption of anthracite in the smelting process, has varied from 27 to 34 cwt. per ton of iron, according to the vein in use.

To heat the blast, the average consumption has been from 7 to 9 cwt. of inferior coal and coke.

With respect to the strength of HOT-BLAST Anthracite Iron, the public are referred to the short-hand writer's report of the evidence given on the trial in the Common Pleas, Feb. 11, 1840, in the cause, "Crane v. Price."

Poole 31.—Mr. David Musket deposed, that he had taken a similar series of bars to those described and made one of Mr. Trengold, for which see his work upon the subject; the same sized bars of remelted HOT-BLAST CAST-IRON, which would only support 175 lbs., required 200 lbs. to break them, when cast with remelted HOT-BLAST ANTHRACITE IRON.

Poole 32.—Mr. George Cotton stated in his evidence, that, with bars four feet between the supports, and one inch square, the following had been the result of his experiments—

Remelted COLD-BLAST IRON broke at 449 lbs. to 455 lbs.

Remelted HOT-BLAST ANTHRACITE IRON broke at 100 lbs.

—From Mr. G. Cotton's evidence likewise with respect to the extraordinary strength of hot-blast anthracite iron, in the same document.

The last experiment tried at the Yattonwys Iron-Works, which was in October of the present year, with 1-inch bars, 4 ft. 6 in. between the supports, cast directly from the hot-blast anthracite furnace No. 1, gave the following breaking weights:—Lbs. 487, 716, 652, 642, 640, 727, 658, 627—mean, 674 lbs.

Yattonwys Iron-Works,

Swansea Valley, November, 24, 1842.

TO BE LET, ON LEASE, or otherwise, in a county in South Wales, on moderate terms, FURNISHED or UNFURNISHED, a GOOD HOUSE, GROUNDS, and GARDEN, with about EIGHTY ACRES OF LAND, over a market, and post-town. The tenant can have coal gratis, &c. To J. Jackson Price, Esq., solicitor, Swansea, or R. M. Price, Esq., 12, Newgate-street, London.

ANSLIE'S PATENT BRICK AND TILE-MAKING MACHINE.—TO LANDOWNERS, BRICK AND TILE MAKERS.—A MACHINE is now in operation in London and Birmingham. Cards to view of work may be had in London, from Mr. Moffat, bookseller, 6, Skinner-street, &c., and in Birmingham, from Messrs. Shewsbury and Mills, 10, Caroline-street, London.

THE "HINDOSTAN" STEAM-SHIP AND H.M. FRIGATE "PRINCELOPE".—The two above-named grand steam-ships are entirely fitted with ANDREW SMITH'S PATENT WIRE ROPE for their Standing Rigging; thus demonstrating that practical experience is daily and progressively establishing its superiority over all other Standing Rigging. For all mining and other purposes it is already proved to be the best and most serviceable description of rope, &c., serving hawsers and chain. —For further particulars, address Mr. Andrew Smith, 2, White Lion-court, Cornhill, London.

Just published, Part I.

COMBUSTION OF COAL, CHEMICALLY & PRACTICALLY CONSIDERED. With coloured plates.

By CHARLES WYKE WILLIAMS, Esq. London: Simpkin, Marshall, & Co., and J. Weale, Birmingham: Wrightson.

THE PARISIAN BITUMEN COMPANY take leave to inform their numerous friends and the public that OFFICES are ESTABLISHED at 4, GREAT WINCHESTER STREET, Broad street, for the City, and at 8, DENBIGH-STREET, Holborn-vine-street, for the West-end and its vicinity, where every information will be promptly given.

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JOHN PILKINGTON, 5, St. John's.

NOTICES TO CORRESPONDENTS.

The MINING JOURNAL is regularly published about Two o'clock on Saturday afternoon, at the office, 1, Crane-court, Fleet-street, where it can always be obtained, and there is no cause for regularly in its supply, in town, other than neglect on the part of the agent through whom it is ordered; but, no respects its transmission to country subscribers, the charge is shared with the Post-office authorities.

In consequence of the increase of business which has taken place in connection with the publication of the MINING JOURNAL, more extensive premises than those at present occupied are found absolutely necessary; the establishment will, therefore, be removed to 16, Fleet-street, opposite St. Dunstan's Church, as soon as offices can be prepared suitable for the efficient discharge of the various duties which have of late so satisfactorily increased upon us.

"J. L." (Newcastle).—A notice of Mr. Atkinson's paper, on the Flushing and Tuhning, or Coldering, of Pitts, as practised in the Coal Districts of the North of England, appeared in the Journal of the 10th September last.

A Subscribers" (Birmingham).—We cannot, at present, devote the space required for a full consideration of the subject.

BIRMINGHAM DUCHESS.—In the official communication from this company, inserted in last week's JOURNAL, we omitted adding, after Mr. Saintsbury's signature, "Secretary to the company." The name of this omission, if any, rests with us, as, from the tenor of the letter, and that gentleman being so well known in connection with the company, we considered its insertion superfluous, and, consequently, erased it.

"A. N."—The paper is not suited to our columns, or we should willingly comply with the author's expectations.

From the great press of matter which we have received during the past week, it was our intention to have prepared a supplement to accompany our present Number, but have not been able to effect it in time; we trust, therefore, beg the indulgence of those correspondents whose communications are not inserted, and which will, therefore, have to stand over until next week.

Recd.—"S. B. E." with thanks—"J. H."—"D. L." next week.

We are unable to attend to several letters, &c., received by this morning's post.

THE MINING JOURNAL,
Railway and Commercial Gazette.

LONDON, NOVEMBER 26, 1842.

In directing attention to Mr. BUDDE's patent for the manufacture of iron, by the application of cold-blast to anthracite, we were not prepared for results so satisfactory as those which will be found described in our present Number, both in the report of MR. DAVID MURRAY and the advertisement of the Yatalyfera Company. The talent and ability of the gentleman who has made the experiments, leaves no doubt as to the superiority of the article produced, the only question being the cost of manufacture—a matter which must affect the rate at which the iron comes into the market, in competition with others, and which also must necessarily have its influence in the adoption of the patent throughout the anthracite district. On this point we are without any information, and, so far as regards the operations of the Yatalyfera Company alone, it is of no moment—but, as relates to the patent of Mr. BUDDE, it becomes a matter of primary consideration.

Our column of this week, in addition to the interesting report of Mr. MURRAY, contains also an advertisement from Mr. CRANE, of the Yattonwys Works, situated within half a dozen miles of those of the Yatalyfera Company. To this we would direct especial attention, as it affords evidence of the advancement made by that gentleman in smelting with anthracite, by the application of the hot-blast. Our readers, and those interested, have thus placed before them, in our present Number, the results of experiments made in the same locality, with materials of a similar nature, both by hot and cold-blast, and thus have the means of arriving at correct conclusions; while we have to express our hope, that the few parties interested in the subject, will enable us, in an early Number, to give the several proportions of ironstone, anthracite, and limestone, used in the respective processes.

We have further to direct attention to some valuable experiments made by Messrs. GRAHAM and CO., at the Milton Iron-Works, with hot and cold-blast iron, from which it appears that the strength of the former, in contradiction to the prevailing opinion, is greater than the latter. The importance, however, which we more particularly attach to this series of experiments, is the refutation given to the statement of Mr. HARBOR, as to the properties of the iron, from which it would be naturally concluded, in the absence of information of the nature conveyed in our column of to-day, that it was perfectly unfit for any description of machinery where strength was required. We doubt not that some explanation will be afforded as to the results arrived at by one and the other, for we are bound to believe, that the experiments in each case were made honestly—yet how different are the representations put before us.

We hope, in an early Number, to give the result of further experiments now in the course of being made at other works. The value of information of this nature must be duly appreciated, and we are well pleased at being selected as the medium through which it is conveyed.

For reasons which must be obvious to our readers, and which will, we hope, not only be understood by the Court of Alderman, but duly appreciated by one of its members, we have abstained from taking any part in the investigation entered upon by the committee formed for inquiring into the truth of the charges preferred against Mr. Ald. THOMAS WOOD, with reference to that gentleman's connection with the Talbot Coal and Iron Company. Having determined on abstaining from all further observations, so soon as the object we had in view was well served—that of an inquiry being instituted—we should not now get up to the subject, but that the proceedings in the Court of Alderman on Tuesday last call for some further observations. The proceedings appear in another

column, which render it only necessary to be brief in directing attention to one or two points, and, in doing which, we hope that even the worthy alderman will acquit us of any desire to "persuade" him, or to ask more than that which is due to the community at large, for not only is the city of London committed by his acts—if he be guilty—but he has inflicted a most serious and irrevocable injury on many families, the principals of which have been reduced, not only to beggary, in some instances, but, in others, compelled to leave their country. We have an instance before us—Mr. SHAW, of Celbridge, near Dublin; this gentleman, who embarked upwards of 10,000*l.* in the concern, has been sued for two bills, between 600*l.* and 10,000*l.*, and, we believe, a fast of bankruptcy issued, these bills being part of the purchase money—a purchase, it will be remembered, made of and by Mr. Ald. T. WOOD, *cum multis aliis*.

At present we are not in possession of further information (except private communications, which shall be made public when occasion requires) than that embodied in the report of the proceedings before the committee on the 18th instant, to which we now have to invite attention. Mr. Ald. WOOD, who courted inquiry, now endeavours to throw the onus on the Court of Aldermen, who, it appears, he wishes to be considered in the light of public prosecutors, or, to use his own language, "persecutors"—the committee having, however, determined that it was alone at the desire of Mr. Ald. Thomas Wood that the investigation was instituted, call upon that gentleman to state what is the nature of the charges alleged against him, which he feels called upon to refute, and accordingly, their labours will be, we presume, confined to those charges only to which Mr. Ald. WOOD may think it necessary to attach any importance—and, as he has already said, upon more than one occasion, that we are utterly beneath his notice, we are led to suppose he will pass by the very serious charges preferred against him through the columns of the MINING JOURNAL. We would, however, recommend him not to attempt a *ruse* of this kind—the charges are serious—they can be established, and he knows it. His reception at Dublin, as alderman and sheriff of London—his representations made there to personal friends of our own, whose correspondence we have to bear out our assertions—the doings at Tadcaster, and other scenes are painted in colours too vivid to admit of being effaced by the sweeping denunciations of the legal Alderman. We trust that the whole truth will come out—but as the worthy alderman appears to be in the twofold office of prosecutor and defendant, which, we presume is in consequence of his having alike filled the double office of vendor and purchaser, as well as trustee and legal adviser, we must needs wait the issue.

The measures determined upon by the German States, of constructing about 2500 miles of railroad, has naturally created a "sensation" more especially on the continent, and with parties who, interested in coal and iron mines, and as founders or manufacturers, are naturally anxious to keep to themselves the "secrets," and not allow Prussian dollars to be exchanged for English pigs or Welch bars. It appears, from an advertisement in another column, that certain kingdoms and states have to construct about 1500 miles, the outlay on which is estimated at 13,000,000*l.* sterling, or about the amount of our London and Birmingham, Great Western, and Grand Junction lines—the aggregate length of which is about 330 miles. The object of the party, whose advertisement has recalled our attention to the railways projected in Prussia, Saxony, Bavaria, and other states, is that of employing capital in the establishment of an "iron rail manufactory," in a central position, so as to be in a position to manufacture 15,000 to 20,000 tons of rails per annum. The capital required to effect this, it appears, is estimated at 125,000*l.*, the profits arising on which, after payment of the interest, at the rate of 5 per cent. per annum, is calculated at 15 per cent., or, in all, 20 per cent. on the capital embarked. The average price of rails in the interior, we are given to understand, is about 12*s.* per ton; the protecting or import duty on foreign rails, being 20 dollars, or about 6*s.* sterling, per ton. It is, of course, impossible to form a judgment of the value to be attached to an enterprise of this nature, in the absence of other data, than that before us; insomuch that the value to be attached to the works, after the primary object is achieved, that of supply—the demand for rails, and the cost of which, must be dependent on the rates at which they can be manufactured in England and Belgium—renders it necessary that other information than that before us should be acquired. In noticing the project, our object is more especially to point out the rapid advances making on the continent, and elsewhere, to become independent of a supply from this country, of our metallic products, while we hold out to the foreign miner, and to foreign states, the advantages of free trade; the latter, at the same moment, by their *amended* tariffs, throwing in our way all difficulties, and protecting, as becomes the Government of every empire, the national industry of the country, and promoting the advancement of the development of its mineral wealth.

The numerous instances, of late years, of deception being practised on the credulity of the public, by the payment of dividends as out of profits, in several undertakings, purporting to be in a flourishing state, whereby the market price of the shares is sustained, while, in fact, the company is in a bankrupt state, cannot be too highly reprobated, and will, doubtless, excite the attention of Parliament on its reassembling. The case of the Bank of Manchester, noticed in a late Number, added to the many which have, from time to time, found place in our column, must, we feel assured, have the effect of some Legislative enactment being put in force, for the security of the public. True it is, that in the case of joint-stock banks, certain returns are made, and the names of the shareholders registered—the latter being, at all times, responsible to the public for any deposits they may make—and, thus the portion of the public, which are not embarked in the company, are protected, as in the case before us, for although the proprietors will lose upwards of 600,000*l.*, yet the depositors, or commercial world, will not be losers. It will, however, be seen, by the numerous proceedings of late, that, in the instance of the Westminster Discount and Loan Company, not only has discredit been brought upon the several institutions of this nature, but that an unfortunate shareholder, who, notwithstanding his liability, to all probability, at the time that he was induced to take perhaps some five shares, or insignificant interest, has been proceeded against, for the recovery of the amount of a bill discounted by the association with a Captain SMITH, who appears to have had dealings in the way of discounts in a wholesale manner—the amount advanced by him being said to be 20,000*l.*. Hence the necessity of Legislative interference. There is, however, another class of joint-stock companies, which require the most scrupulous investigation, and over which there should be a controlling power. We refer to the insurance companies, more especially those for granting annuities, or paying sums of money on the demise of a assured. We conscientiously believe that many of these could stand a searching inquiry, while, by their reduced rates, and the superior advantages they hold forth in their offering prospectus, do an injury to those established on sound and valid principles.

METHOD OF OBTAINING COPPER AND SILVER IN THE MOST ECONOMICAL OR DIVISIONAL.—A solution of sulphate of copper is heated to a boiling-point, and precipitated with distilled water. The precipitated mass is then separated from the adherent zinc by filtered sulphate and dried by exposure to a moderate temperature. From recently precipitated sulphide of zinc an extremely fine silver dust may also be obtained by boiling it with water saturated with sulphuric acid and nitric acid.

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ANXIOUS READERS will observe the improvements now made in the construction of this company's offices, and those who are desirous of obtaining information respecting the same, will be pleased to apply to the Secretary of the Board of Directors.

PROSPECTUS, MEMORANDUM, and every Information requisite to enable persons to make their selection, and ascertain, will be forwarded, free of postage, to the agents of our Society.

ALEX. BROWNE, Secretary.

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COLD-BLAST ANTHRACITE IRON.

The Yatalyfera Iron Company beg to hand to the Editor of the *Mining Journal* a copy of Mr. Musket's elaborate trials on their cold-blast anthracite iron, which they hope he will think of sufficient importance and interest to deserve insertion in his next publication. The great experience of Mr. Musket, and his skilful manipulations, joined to his rigorous exactness in all the conditions of comparative experiment, will, they think, remove any doubts which such an extraordinary increase in the strength and destructive power of cast-iron, as that shown by their patent elastic steels, might otherwise call forth.

The Yatalyfera Iron Company, in placing their iron in the hands of an authority so entirely above suspicion, and so justly relied on by Mr. Crane, have given to the public all the security in their power against error or exaggeration.

The Yatalyfera Iron Company, seeing an assertion made by a correspondent in the *Mining Journal*, signing himself "Another Anthracite Proprietor," that their furnaces usually make white iron—and which, if uncontradicted, is calculated to do an injury to them in their business—think it incumbent on them to deny such statement. Both their furnaces are making grey foundry iron, and they may mention it as an unusual circumstance, that their No. 1 furnace has made no cast below grey foundry iron since the 7th of September last.

Yatalyfera, Nov. 21.

EXPERIMENTS MADE WITH THE COLD-BLAST ANTHRACITE PIG-IRON, MANUFACTURED AT YATALYFERA IRON WORKS.

BY D. MUSKET, ESQ., M.I.C.E.

Author of "Papers on Iron and Steel."

Breakage of sundry bars of cast-iron, at two feet leverage, made with anthracite and cold-blast.—*Bars 1 3-10/8 inches broad, 65 inches deep.*

1. No. 2 pig-iron, from No. 1 blast-furnace.	1823
2. Ditto ditto ditto	1851
3. Ditto ditto ditto	1853
Average breaking weight	1853
1. No. 1 pig-iron, from No. 1 furnace.	1851
2. Ditto ditto ditto	1851

Average breaking weight

1. No. 3 pig-iron, made from blast-furnace No. 1.	1871
2. Ditto ditto ditto	1851
3. Ditto ditto ditto	1851
4. Ditto ditto ditto	1851

Average breaking weight

1. No. 2 pig-iron, cast from No. 2 blast-furnace.	1864
2. Ditto ditto ditto	1851
3. Ditto ditto ditto	1851

Average breaking weight

GENERAL AVERAGE.	1853
No. 2 pig-iron, from No. 1 furnace.	1851
No. 1 pig-iron, from No. 1 furnace.	1851
No. 3 pig-iron, from No. 1 furnace.	1851
No. 2 pig-iron, from No. 1 furnace	1851

General average of breaking weight of cast-iron from the blast-furnaces.	1851
Breaking average of the whole of the Yatalyfera blast-furnace iron.	1851
Of the stone coal furnace iron.	17/2

Breakage of sundry bars of cast-iron, remelted from pig, at two feet leverage.	1853
—Bars 1 3-10/8 inches broad, and 65 inches deep, as before,	

No. 2 pig-iron, made from No. 1 furnace, and remelted in the cupola with anthracite coal.	1851
1. Bar broke with.	1851

1. Bar broke with.	1851
2. Ditto ditto	1851
3. Ditto ditto	1851

Breaking average

No. 2 pig-iron, remelted in air-furnace.	1851
1. Bar broke with.	1851

1. Bar broke with.	1851
2. Ditto ditto	1851
3. Ditto ditto	1851

Breaking average

No. 2 pig-iron, remelted in air-furnace.	1851
1. Bar broke with.	1851

1. Bar broke with.	1851
2. Ditto ditto	1851
3. Ditto ditto	1851

Breaking average

No. 2 pig-iron, remelted in air-furnace.	1851
1. Bar broke with.	1851

1. Bar broke with.	1851
2. Ditto ditto	1851
3. Ditto ditto	1851

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No. 2 pig-iron, remelted in air-furnace.	1851
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3. Ditto ditto	1851

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No. 2 pig-iron, remelted in air-furnace.	1851
1. Bar broke with.	1851

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3. Ditto ditto	1851

Breaking average

No. 2 pig-iron, remelted in air-furnace.	1851
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Breaking average

No. 2 pig-iron, remelted in air-furnace.	1851
1. Bar broke with.	1851

1. Bar broke with.	1851
2. Ditto ditto	1851
3. Ditto ditto	1851

Breaking average

No. 2 pig-iron, remelted in air-furnace.	1851
1. Bar broke with.	1851

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2. Ditto ditto	1851
3. Ditto ditto	1851

Breaking average

No. 2 pig-iron, remelted in air-furnace.	1851
1. Bar broke with.	1851

1. Bar broke with.	1851
2. Ditto ditto	1851
3. Ditto ditto	1851

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quantities of coal and calcined ore are put upon the furnaces at Yatalyfors, this would give a consumption of from two to two and a quarter tons only to the ton of iron; and if fifty-three or fifty-four cwt. is about a ton more than the hot-blast furnaces use, it results that the actual increase in consumption of coal in the cold-blast furnaces, cannot, at the very outside, be more than ten cwt. to the ton of iron, or about 2s. or 2s. 6d. in money. And now how stands the case? Why, that against an increased cost of from 2s. to 2s. 6d. for coal in the furnace, and a reduction of 10 to 12 per cent. in the quantity made, which reduction effects the standing charges only, we have to place the saving of the fuel employed in the hot-air stoves, the wages of the firemen attending them, the cost of their erection, which is equal to the cost of the furnace itself, the expense of their continued repairs (and, I would ask, how many stoves were torn down and entirely rebuilt in the Yatalyfors and Yatalyfors works in the last twelve months), and the improved quality of the iron made. I leave it to those conversant with the iron manufacture, to judge, from these premises, which must be the cheaper process. It certainly requires something more than an unsupported assertion, that a sacrifice of something like a 1000/- per annum per furnace, would be the result of substitution of the cold for the hot-blast process, to upset these facts.

With regard to the relative qualities of the iron made by the cold and hot-blast processes, I quite agree with your correspondent, that something more is required on that subject than the vague assertion of either of us. Until Mr. Musket's experiments are made public, therefore, I am content to let the matter rest upon the basis on which I placed it in my former letter—viz., that as cold-blast iron is invariably, and with every full intensity, stronger and better than hot-blast iron made with the same materials, it is a natural inference that cold-blast anthracite iron will be, in the same proportion, superior to iron made with anthracite by hot-blast. Your correspondent appears, by implication, rather than direct assertion, to desire to lead to the conclusion that the Yatalyfors furnaces have usually made white iron since the adoption of the cold-blast process. This is notoriously the very opposite of the fact, as your correspondent will easily ascertain, if he takes the trouble to make the inquiry, with a desire to obtain correct information.

I think I have now satisfactorily disposed of the statements and arguments contained in "Another Anthracite Proprietor's" letter. I have no desire to engage in a newspaper controversy, and shall not again trouble you upon this subject, unless I think that by doing so I can forward the interests of anthracite, which I have very much at heart.

AN ANTHRACITE PROPRIETOR.

BIRMINGHAM, Nov. 21.

ON THE MANUFACTURE OF IRON WITH ANTHRACITE.

TO THE EDITOR OF THE MINING JOURNAL.

Sir.—I observe in your Journal of the 12th inst., a few remarks respecting Mr. Budd's patent for the manufacturing of iron with anthracite coal, by "An Anthracite Proprietor." I beg leave to say that gentleman is saying too much upon points. He remarks that Mr. Budd has accomplished that which was held to be an impossibility—that is, the manufacturing of iron with anthracite coal, with cold-blast. I am at a loss to know who or what person held this opinion; but the gentleman, who styles himself "An Anthracite Proprietor" dare venture to express himself such. I beg leave to inform that gentleman that the same thing was done in America in 1830 (twelve years ago) in the State of New Jersey; I, myself, superintended an iron-work only forty miles from New York, where we, with cold-blast, worked anthracite coal in the smelting of iron, with a small blast-furnace, or, as some would call it, a large cupola, about sixteen or eighteen feet high to the charging place, and the thing worked very well: this was in 1830—certainly this was one of these impossible things. But there is another thing that we accomplished with the anthracite coal; we constructed a furnace for heating iron; and we worked two furnaces, as they are called in Wales, "halling-furnaces," and with anthracite coal, and finished from eight to ten tons of 12 inch round bolt per day, and all heated with anthracite coal. I suppose this is one of Mr. Budd's impossibilities. I have left America now some four or five years, and I believe the same thing is going on now in 1842. I have long been a reader of the *Mining Journal*, but never wrote a line to appear in your useful Journal before; you are quite at liberty to correct my remarks as you think proper.

Nov. 21.

MR. NEILSON'S HOT-BLAST PATENT.

TO THE EDITOR OF THE MINING JOURNAL.

Sir.—Referring to my letter of the 10th instant, and your remarks thereon—I first premise that I do not anyways refer to the operation of *hot-blast* on anthracite—that, I said, "is being proved;" it is its adaptation to bituminous coal I apply my remarks, and not "hastily at conclusions." It has been said a ton of iron has been produced by two tons of coal, using *hot-blast*, whilst from 7 cwt. to 9 cwt. additional has been used to heat the hot air furnaces—making 2 tons 7 cwt. to 2 tons 9 cwt., besides, as before-intimated, the expenses of pipes, furnaces, and workman's wages. Now, iron is being made with less than 2 tons 10 cwt. of coal, without any extra expense, and by *cold-blast*—then, I ask, where is the boasted advantage of *hot-blast*, setting aside the asserted inferiority?

A. H.

WELLINGTON, Salop, Nov. 21.

MR. NEILSON'S HOT-BLAST PATENT.

TO THE EDITOR OF THE MINING JOURNAL.

Sir.—I beg to trouble you with a few remarks upon a letter signed "A. H." relative to Mr. Neilson's hot-blast patent, which appeared in your Journal of the 19th instant. On the question of the propriety of a national testimonial to Mr. Neilson, I shall not enter; but, surely, no one who is not wilfully blind to the clearest and most notorious facts, can doubt that the adoption of the hot-blast process has been a national benefit. There is no manufacture more extensively national than that of our iron, since in it we are indebted to no foreign production, while, as a source of wealth—a field for industry—all must admit its great importance; every application, therefore, in the manufacture, which effects a saving in the consumption of the costlier metal—which enables inferior materials to be worked, that would otherwise have lain unused, and, consequently, valuable (no matter in what particular part, or parts of our island it may have been done)—must be a national advantage, and such has been the result of the application of the hot-blast. Nor does it affect this estimation in the least, to point to the over-trading that has resulted from the greater facilities afforded the iron trade by such application, since an absence of a benefit does not make that benefit in itself less valuable.

"A. H." certainly has a peculiar, though not a very ingenious, manner of getting rid of the facts which stand in the way of his conclusions—viz., to deny them. Thus he says:—"As to the expression, that it required nine tons of coal to make one ton of iron in Scotland previous to the (hot-blast) introduction, I do not believe it." I would refer "A. H." to the report of Mr. Duthie, on the use of hot air in the iron works of England and Scotland in 1834, a translation of which was published in 1836, wherein are statements taken from the "yield-books" of various works in Scotland, Yorkshire, Derbyshire, Shropshire, and Wales, which, as the works and proprietors are specified, have every chance of being corroborated, had they not been perfectly authentic, they would very soon have been detected. One or two of these statements I will make as specimens of here, so as to enlighten "A. H.'s" unbelief. First, as to Scotland. It appears the consumption and yield of No. 3 furnace at Caledon Works, for a period of three months, in 1835, with cold-blast, was—Coke 1579 tons, to make from the coal, there was a loss of 53 per cent., thereby making consumption of coal equal to 2711 tons; of consumption one 1475 tons, of limestone 301 tons, and the produce of Nos. 4, 5, and 6 pig-iron, 472 tons. This statement shows 7 tons 17 cwt. of coke to have been used in the furnace to a ton of iron, to which must be added the consumption of the blast-engine, stated at 24 cwt., to a ton—equal, in all, 8 tons 1 cwt. of coke to a ton of iron, and the limestone appears to be 1475 per cent. to a ton of iron. Again, it appears that the consumption and yield of the same furnace and the same works, for a like period of three months, in 1835—1836, with *hot-blast*, was—Coal 1347 tons, coke consumed one 1085 tons, limestone 163 tons, and of pig-iron, Nos. 1, 2, and 3, equal 945 tons. This shows 7 tons 4 cwt. of coke to have been used in the furnace to a ton of pig-iron, to which add consumption of blast-engine, stated at 24 cwt., to a ton (the same engine here more favorable, and much furnace made from iron), thus consumption of heating apparatus, 6 cwt.—equal, in all, 7 tons 4 cwt. of coke to a ton of iron, and the limestone is shown to be 1475 cwt., to a ton of iron. Hence, there, in a saving of 2 tons 12 cwt. of coke, and 2½ cwt. of limestone on every ton of iron. As Duthie's is also stated as taken from the yield-books of the works, West of Shropshire Works, with cold air, the consumption of coal in the furnace was 7 tons 18 cwt., and with hot air (including 2 cwt.

for heating apparatus) equal to 2 tons 18 cwt. At Codnor Park, with cold air, in the furnace, 5 tons of coal were consumed to the ton of pig-iron, while with *hot air* (including heating apparatus, 6 cwt.) only 2 tons 15 cwt.—showing very little more than half the quantity of coal used with *hot air* process than with cold air.

It is true, that such results have not everywhere taken place; it is also true, that with some materials iron has been produced by cold-blast, with as small a consumption of coal as three and a half tons to a ton of pig-iron, or even less; but this by no means militates against the positive benefit which has resulted in many places. But for the application of *hot-blast*, the great bulk of mineral property in Scotland would have been comparatively of no value, because unavailable; and many millions of tons of material in England, which is now using, would have been wholly unprofitable—as, for instance, that of North Staffordshire, some parts of South Staffordshire, and some parts of Shropshire. This, too, is without taking into consideration the question of anthracite, having only reference to bituminous coal. As regards the quality, in most cases, the pig-iron, made by *hot-blast*, is considered less stout than that produced by cold-blast, although, in some cases, I have known it to be the contrary; but when it is a fact beyond dispute, that there is now as much *hot-blast* pig-iron made as of *cold-blast*, and that that pig-iron is used not only for foundry purposes, but also converted into good malleable iron, it cannot be of so much less value, compared with *cold-blast* iron, as "A. H." would have it inferred. Such results as these could never have been arrived at, if "A. H.'s" conclusion of the *hot-blast*, having been "tried and found wanting," had the smallest pretension to correctness.

G. T.

Glasgow, Nov. 22.

ORIGIN OF MINERAL VEINS.

TO THE EDITOR OF THE MINING JOURNAL.

Sir.—Having observed in the lead mines of the north of England that the mineral is only found in the veins against the great limestone beds (above them nor below them we seldom or ever find any lead), I should feel obliged by some of your intelligent correspondents throwing a little light on this subject. Neither Hutton nor Werner's theories give a satisfactory explanation on this head. I have often seen, in old workings, lead-like needles vegetating from the limestone beds, but not from the other beds. Our north and south veins, in the north of England, are not so productive as the east and west veins, and I have often seen, on the sides of the north and south veins, slickensides, or polished and striated faces, which I do not remember seeing in the east and west veins.

Cornhill, London, Nov. 24.

F. TRESDALE.

ORIGIN OF METALS.

TO THE EDITOR OF THE MINING JOURNAL.

Sir.—In your last week's Journal, a question is put to some of your intelligent correspondents, relative to the origin of metals; or in what state, and where they existed, before they found their way into the present veins. This is an interesting question, not only in the economy of mining, but also in geological dynamics. There is a beautiful, and, I may say, a rational theory, lately promulgated by a scientific and practical gentleman, who has been engaged in some of the foreign mines (Mr. Hopkins), which theory, I understand, is now undergoing an investigation by some of our first geologists. According to this gentleman's theory, it appears that the mineral existed in the rock as one of its elements, and that all the east and west lodes or veins, joints, &c., &c., are fractures resulting from a force (called magnetic), acting horizontally, and more or less parallel to the median; and that these classes of veins are, therefore, gradually opened and filled by the crystallizing power of the metalliferous ingredients, acting in the same direction as the tensional force—that is, *northward*—exposing, as it were, out of the rock from the *south side* of the fracture. This accounts, in a most remarkable manner, why the mineral contents of east and west veins correspond to the nature of the rock in which they are enclosed, and why they produce parallel bunches—that is, in the same median. This fact I have observed for many years in Cornwall. The above points to us the source, namely, that the same north and south metalliferous lodes of rock feeds each fracture. The north and south veins are divisional planes, and not lines of fractures, and as they are situated in the same direction as the metalliferous currents, they present no resistance, nor do they command any surface of rock for supplying them. However, they are occasionally supplied from the south by means of south-east and south-west branches coming into them; without these branches, or roots, as it were, the north and south veins are not worth working, and, therefore, of little value, which is the case in the mines of Cornwall. Whereas the lodes of fractures—that is, east and west—being at right angles to the metalliferous currents, present resistance, consequently causing concentration, and rendering them, as they really are, the most productive and important metalliferous deposits. The north and south veins, joints, and the laminae of the primary rocks, according to Mr. Hopkins's theory, have been formed, and are now forming, vertically (and not horizontally, as we have been led to suppose by some authors), by means of the elementary ingredients, principally mica, of the fundamental base penetrating the rocks by polar forces from south to north. The lead ore in the veins of the carbonaceous limestone, in the north of England, is invariably found only opposite the great limestone beds. Neither igneous eruptions from below, nor aqueous deposition from above, can account for the above fact, but the theory in question readily gives a satisfactory explanation—namely, that the vein is filled from the side wall, according to the nature of each bed. The limestone, therefore, appears to be the only metalliferous bed, from which the vein is supplied with the sulphur of lead. Anticipating that this most rational and simple theory will shortly be made public, through the medium of your interesting Journal, I am, Sir, yours, &c.,

Portland, Nov. 22.

A. MINING CAPTAIN.

ON THE FORMATION OF MINERAL DEPOSITS.

TO THE EDITOR OF THE MINING JOURNAL.

Sir.—There appears to be a great deal of geological, mineralogical, electrical, and I don't know how many other reasons and opinions given, of the formation of the mineral deposits in our own and other countries; first, second, and third, and I don't know how many formations, and so on, but which we, (ignorant miners, cannot possibly understand, neither do I believe, that one out of every 300 that sit two hours together to hear lectures upon that very plausible subject, understand, or get one jot the wiser by hearing them; for many of those lectures, delivered by those great manufacturers that continually of late are showing off about the kingdom; to us miners such stuff is often downright nonsense); but then, of course, we are ignorant men—our crevices are as thick and as hard as the rocks we work under—Oxford and Cambridge are the places, say some, to get mining knowledge. * * * Please to ask those geologists and mineralogists a few straightforward questions, that we miners and colliers may get some share of understanding in our own business. I will not ask them anything about their first formation, but their second, by which they account for upthrows, downthrows, and invasions, of all kinds, to earthquakes, volcanoes, and such violent things as these confusions would produce. Please to ask those great talkers—for they can talk well—if ever, since they left Oxford or Cambridge, they now, in any mineral basin in England, any such effect in the stratification, within the bowels of the earth, as earthquakes and other terrible convulsions in Nature would produce? and I am convinced they will tell you so; nor they never did see such confusion within the earth as such things would produce. Everything is correct there—it is simple, yet grand—the stratification of the earth in those mineral deposits are placed one on the other as correctly (some thick and others thin,) as we could place books, bricks, or tiles, one upon another. Now, would earthquakes and volcanoes have left them so? Would they not have been torn, and buried, and jumbled together in a confused state?—I say these men never saw them so mixed together. I know there are upthrows and downthrows in those mineral deposits; I have seen them throw up or down from 200 yards to two hundred, and sometimes slight confusion attending some of them, but, generally, nothing worse than when the vein is lost at these; the confusion will direct the way to seek for it again, and, generally, through these changes, as we call them, might of them be injured to the locality they are found in (but often they are a benefit), still, on taking the whole district around, they are often a blessing. To a thinking practical miner, the beauty, the regularity, and harmony, manifested in the strata of the earth's formation is admirable. Then, again, they will tell you soil is a combination of vegetable matter. I would ask them, what are those tremendous rocks, cliffs, and sheet-thrusts, we continually find placed above the coal? &c. above vegetable matter too? They are often between the strata and vegetation on the earth's surface.

A. M., No. give you a new theory of the natural stratification of the

earth—at least, new for anything that I know. I will begin at the mountain limestone; wherever that limestone shows itself at the surface, and dips in the same direction as the surface of the earth rises, and that rise sufficient to receive the coal formation, the coal formation will most surely take place. Now, that is from Nature to be expected, as truly as if we plant a tree, and expect that tree to produce its own natural fruit. The same with the next formation below—the old red sandstone; if you can see the top of the old red sandstone follow the dip of it, and, if the surface rises in the direction of the dip of it, you will surely find the mountain limestone, and so on through all the stratification of the earth¹¹, with this exception, where upthrows or downthrows derange the stratification. One thing I would also mention, that, generally, where the crop of the strata is a south or south-east crop it throws out most rapidly, and I have seen it, in some instances, go out to crop very rapid to the north and north-west; when the surface strata goes out to crop in that rapid form the whole stratification under it follows up too, which occasions those towering rocks and mountain ridges seen with the strata formation standing upon an end. Other mountain masses, that rise immensely high, have their formation as correct as any level land in flat districts, their bases resting upon some known strata; all the others, from the base to the summit, may be numbered as we number courses of bricks in a wall—so much for my theory of the earth.

In your notice of the celebration of the union of the Leeds Literary and Mechanic's Institution, and the address delivered by the Rev. W. Buckland, the following observations occur:—He spoke of "the bursting of one coat of the great onion occurring—it was by all the laws of physics accompanied by a series of fractures. In consequence of these phenomena, they had five great transverse fractures eastward and westward, that had been the causes of the valleys, down which flowed the magnificent rivers which united in the Humber. They had the river at Wakefield, the river that passed through Leeds, the Wharfe, the Nidd, and the Swale, and every one of these rivers was generated by transverse fractures, which in the main—not literally—were at right angles to the great line of elevation. Above all, they had the fracture, the great chasm, by which they went from this town, through Sowerby, Tadcaster, and Rockdale, to Manchester. What was that?—It was that great chasm, that great snap of the backbone, when the great giant laid prostrate in the earth was brought up 1200 feet to be quickened into a state of activity, and to present them with those beds of coal which had been the means of carrying into operation their ingenuity and mechanical invention." A great upthrow in the strata of 1200 feet would just do what Mr. Buckland said it had, before that upthrow took place, those very coal beds he was then speaking of were buried very deep in the earth. Now, would our modern mineralogist say that those coal beds had been raised 1200 feet from their primitive bed, and, perhaps, now half that distance down to some of them?—I say, will Mr. Buckland, or any other of the same school, say that those coal beds were formed of vegetable matter?—I think they cannot say so. And the bursting that he describes as taking place, and causing the valleys to receive the rivers, I wish to know how far the bursting, or rent, went down into the strata of the earth there—he says through the first coat of the great onion; I wonder how far down that was, because I have seen very deep valleys, between two high hills, in South Wales, in the South Wales mineral basin—and, indeed, not a few of them in succession in crossing that district—and rivers, great or small, in the bottom of every one of them. Were those valleys, I would have to ask him, made by bursting, &c.? If they were, the bursting went no lower than the bed of the rivers; for I have worked under the beds of some of those rivers, and always found the strata as perfect under the rivers as I found it under the mountain tops. Mr. Editor, if those Oxford and Cambridge gentlemen would just confine themselves to the searching out the stratification of the earth with the view of assisting the practical miner, receiving the formation of the earth, as it is, and as it came out of the hand of the Creator, with the exception of the change the general deluge made in its surface, which was the true agent that despoiled and bursted (as Mr. Buckland has it) the valleys, they may sometimes be of use to the miner, in calling his attention to the opening of new mines; but they do, and will, mix up so much mystical reasoning with useful knowledge that it bothers our hard heads, and puts us sadly out; and, if they don't write to profit the practical miner, and assist him in his operations, to whom else is their writing and lecturing of any use? What real service can they be doing in large manufacturing towns, talking two hours at a time to manufacturing men? If they are to be of any real service they should lecture in the great mining districts, that the miners may have the benefit of them. The sum and substance of the matter is this:—The Almighty Creator has done all things well, and I believe it was done, finished (no second formation), in six days, and then rested on the seventh. I don't know what a day is with the Lord—it might be 1000 years—but this I do know, that what is done is done right, for the use of man, even the formation of the earth. If we begin at the wrong end it is through our ignorance—there is a right way always into the bowels of the earth—but man is a short-sighted creature.

Blaenavon Iron Works, Nov. 11.

THOMAS DEAKIN.

[Our correspondent appears disposed to go "the whole hog." We insert his letter, however, in one respect, we agree with him, that the labours of one geologist would be more useful, if their results were communicated to the miner rather than to the manufacturer. Mr. T. Deakin, however, like most others, would overturn not only all theories but his own, but the results of a practical research and inquiry, and involve us in questions of theological controversy. The present must be the last letter in which reference can be allowed to subjects which exceed the reach of human knowledge, and which should be left to other interpretation than we can presume to approach. Of what "formation" one correspondent considers himself, we know not—perhaps the primary. We can hardly believe Mr. Thomas Deakin ever worked "under the beds of rivers," under the circumstances stated.]

EXTRAORDINARY MINERALOGICAL PHENOMENON.

TO THE EDITOR OF THE MINING JOURNAL.

Sir.—In reference to the "extraordinary mineralogical phenomenon noticed in the *West Briton*, and in your last week's Journal, I think there can be little doubt that the substance discovered by the miner was soap-stone, or steatite. I send you herewith a specimen very similar in appearance to the description given by the correspondent of the *West Briton*; it was found in Mexico, with an ore of manganese, some of which appears on the specimen. Steatite occurs in various parts of Mexico, in connection with silver and iron veins, and with argenticiferous manganese in the instance I have brought before you.

J. P. London, Nov. 23.

LEVELLING—THE EARTH'S CURVATURE.

TO THE EDITOR OF THE MINING JOURNAL.

Sir.—I beg to hand you another rule in answer to Mr. Baddeley's question on the earth's curvature, which is deducible from my process of levelling, and which did not then occur to me; it is, square the length miles, and multiply by eight—the answer is then bad in inches

high correspondent was the first who gave the solution; I presume it is right that he should have the merit of it, and not a jot the less because it is the application of an old, plain, and well known operation. As this is an important subject to mining, and all are not favoured alike with mathematical knowledge or ideas, it will, I doubt not, be acceptable, if some one of your correspondents will give a clear and general rule for applying the amount or quantity of curvature in all cases of levelling, so that no one may fall into the double error of adding the curvature to the wrong end of his course of levelling.

JOHN BUSSE.

PRACTICAL KNOWLEDGE OF MINING.

TO THE EDITOR OF THE MINING JOURNAL.

Sir,—A person who calls himself "Geologist" wants to know some particulars concerning dykes, faults, &c., with other things, which the practical and experienced miner might furnish him with. You tell him that "he must be well aware that the series of questions he huddled together cannot be replied to; his ideas of dislocations (you say) appear to us to be of a vague nature; a slight knowledge of the coal-fields of Staffordshire, those in North and South Wales, with the mineral lodes of Cornwall, Derbyshire, and other districts, would convince him that there is no possibility of generalising an answer, as he puts the question." I don't see that the question requires generalisation; a separate description of each district would do for your correspondent. Now, I know there is more than one practical miner in each of the above districts that could give the required information, but that won't do for the press, except mixed with the nonsense of Kirwan, Hutton, Bakewell, Buckland, and De la Beche, and all that school; those people write, and might write, what they please about the earth's surface, but no practical miner can behold their writings about the bowels of the earth without considering a deal of it an insult to common sense.

THOMAS DEAKIN.

Blaenau, Nov. 22.

BOLANOS MINING COMPANY.

TO THE EDITOR OF THE MINING JOURNAL.

Sir.—In the prefix to the prices of mining shares, in your paper of the 8th of October, you say, "Bolano's has made a remittance of 25,000 dollars, with every prospect of its being one of the last;" which gratuitous remark has been injurious to the property, inducing some persons to part with their interest, preventing others, to my knowledge, from becoming proprietors, and causing uncomfortable feelings, needlessly, to many who are such. You will, I am sure, be glad to correct the misrepresentation which has been made to you, by allowing the insertion, in your next Journal, of the annexed statement:—First. An abstract of the advices received on the 19th inst. per the Clyde, from the company's two districts of Zacatecas and Bolano's; and, secondly, the financial position of the company, closed by a short reference to the character of its present mining engagements.

A SHAREHOLDER.

London, Nov. 24.

[The statements accompanying the letter of our correspondent will be found under the head of "Mining Correspondence."]

CARN BREA MINES.

TO THE EDITOR OF THE MINING JOURNAL.

Sir.—In a letter, in a late Number of your valuable paper, some inquiries were made as to the affairs of this company, to which I have not at present seen any reply. It appears to me that there is something more than meets the eye, or we should have heard straight off this. Allow me to me to ask, whether the monthly cost is regularly paid at the mines? Whether the principal local director, who spends his time in London, instead of at the mines, is associated with the successful issue of his speculations in this concern, Wheal Julia, Duffield, and others, that he is regardless of the interests of those who raised him to his present position? And, further, whether there is any truth in the reports abroad, as regards the pecuniary concerns of more than one who have embarked in this adventure? Rumour, with many tongues, gives strange tales here; but, in the absence of the captain, we are at a loss to guess at the truth.

Redruth, Nov. 22.

AN INQUIRER.

TO THE EDITOR OF THE MINING JOURNAL.

Sir.—One might be led to suppose that the affairs of the Durham County Coal Company, now that certain abuses have been exposed—the errors made—the management changed, and you silent—were in a gratifying state—that the wheels ran smoothly, and that the whole of the machinery was not only of an efficient, but of an effective nature. You are not sufficiently "North" to know all our moves, or you would not have allowed the ink to dry in your pen—your vigilance to have become dormant; it, however, behoves me to apprise you (if that you are, as I am led to suppose, in total ignorance) of what we are doing, or, rather, what we are not doing, and the prospects which present themselves, and thus I may, in some measure, anticipate the report of the directors, which will be presented at our half yearly meeting in February. You are aware, Sir, that having rid ourselves of the many busy B's, we allowed others to occupy the hire, but, unfortunately, these were drones; and apathy following on active inquiry, has, I fear, placed us in a position not much better than that from which we have escaped; true, there were some wasps, but they kept us on the qui vive, and at last we took the sting out of them, although not until after we had been severely bitten. Our position now is simply this—we have a board of management, who, possessing integrity, lack intelligence—who are men of business, but not (colliery) business men, who, meaning well, are incapable of carrying out their designs, and who think the same of directorate legislation is to see that nobody pays twice or is twice paid; in fact, we have an honest hostile direction. There is an old saying, as to whether it is best to deal with a knave or a fool. In truth, I know not, in the present case, which is best. I trust that my fellow proprietors will, ere the hour arrives to receive the report of the directors, inquire well for themselves. Should this rouse you, Mr. Editor, or the shareholders, to action, and awake them from their slumbering, I shall be happy to give some brief notes for consideration.

AN ORIGINAL PROPRIETOR.

[We shall be glad to hear again from our correspondent, for we are free to confess, we are not sufficiently "North" to be up to all the "moves."]

LONDON AND BLACKWALL RAILWAY.

TO THE EDITOR OF THE MINING JOURNAL.

Sir.—What, in the name of fortune, ails the directors of the London and Blackwall Railway? Are their wits paralysed that they carry on such a frantic game against their own interest? Not contented with the experiments they have acquired, through the insane project of raising their fares—while other conveyances were underworking them, in carrying the mass of passengers who daily travel from Blackwall to the city, and back in the evening—they have struck upon the foolish expedient of halting the running of their trains after half-past five, starting half-hourly; so that a passenger, who arrives at their terminus ten minutes after the train has departed, will have to wait fifty minutes for the departure of another train. Halting the fares, in the first instance, disgusted the public as much, that a return to the old prices for the intermediate stations will not have the effect of restoring the railway to their patronage; and the restriction to the period of starting in the evening, will unquestionably end in empty trains. If the shareholders understand their own interests, they would, in lieu of increasing the number of daily journeys, increase their number—say to six times in the hour; if not practicable, to five journeys in the hour—then, by reducing the fares throughout to 4d. first class, and 3d. second, they would succeed in putting down their opposition, the omnibus, the number of which have been greatly increased within the last two months, and which soon on their junction, to end fire, loaded inside out. These numbers of passengers. The railway company must bid for them by reducing the fare below the cost of the omnibus, or run their trains, as they have been doing, nearly empty. It takes about six minutes to wind them up from Blackwall to Fenchurch-street; without introducing that word, the directors might contrive some mode of getting the passengers who alight out of the carriages, and those who are about to start into them, in time. The absurd idea of halting the passengers in the road before, or the terminus, Fenchurch-street, who have paid their money and taken their tickets, delays the train ten minutes, of least, to overtake the train to the omnibus. The passengers about to start should be placed, previous to the arrival of the omnibus, in a position ready to enter the carriage the moment they arrive. A hint from you to the managing officer may evoke the energies of the directors, and thereby save the property embarked in the undertaking from destruction.

A CONSTANT READER.

PROSPECTS OF THE GREAT WESTERN RAILWAY.

TO THE EDITOR OF THE MINING JOURNAL.

Sir,—If you think the following statistical information worth inserting in your very valuable paper, your doing so will oblige T. Y. VENN.
Bristol, Nov. 19.

Prospects of the Great Western Railway, for the half-year ending December 31.

RECEIPTS.	
July 31—four weeks two days	£71,180
August 31—four weeks	68,270
September 31—four weeks	67,251
October 31—five weeks	68,451
November 31—four weeks, say	64,000
December 31—four weeks six days, say	60,000
Surplus, 20th June	£20,222
	5,803
	£20,222

The receipts for October having averaged 10,000 per week, and the first week in November having produced 12,000, I have assumed 11,000 per week for November, and 12,000 per week for December.

I am informed the long traffic from Taunton is increasing; and the goods station, at Bristol, being now nearly complete, the directors are arranging for the carriage of a large quantity of heavy goods; therefore, I think, that the receipts for the year will exceed my calculation.

* The working expenses for the last half-year, as per printed report, was £127,727. As the same number of trains are run this half, the expense must be nearly the same, except increase of Government duty, say £1,000. And for running the trains on the extension to Taunton, 30,000 miles, at 1d. 6d. per mile, £1,200. Extra clerks, porters, and watchmen, say £800—£1,000.

A portion of the above expenses were for maintenance of way, £1,000, which, on account of the previous wet weather, was very heavy; 147 miles are now let at an average of less than 2d. per mile per week; I may, therefore, reckon upon a saving in this item of nearly 10,000; I will, however, only deduct £727.

Reducing the expenses on the present half-year to £125,000.

EXPENDITURE.	
Working the line and branches, say	£125,000
Cost of Cheltenham line	8,000
Rent and toll of Exeter line	34,000
Interest on borrowed capital, £12,000, at 6 per cent. per annum	£720
Less interest on money in hand, say	6,010
Dividend on shares, £20,000, at 6 per cent. per annum	120,000
Balance to be carried to next year	7,987
	£125,000

I have not noticed the reserved fund, as there appears a general desire to divide the whole of the profits, by which they may increase the dividend and carry over a larger balance to the next half-year.

The present amount of receipts and improving prospects of this great line, its superior accommodation, ease, speed, and facility, calling forth the admiration of all who travel by it—is a sufficient reply to the parties who are constantly endeavouring to write it down—from interested motives, I have no doubt.

I have been careful in making this calculation (which I have little doubt will be borne out by the report of the directors at the next meeting), for the information and consideration of my fellow shareholders.

The present market price of the 1st. shares (which are all paid up) is about 60s.; if the next dividend should be only at the rate of 7½ per cent., they will then be worth 75s. per share, and, if 8 per cent., 80s. per share, and still pay 5½ per cent. upon the money invested in them. I think this a very favourable opportunity for capitalists to invest, and get nearly double the interest to be derived from the funds.

Bristol, Nov. 13. T. Y. V.

SOUTHAMPTON DOCKS.

TO THE EDITOR OF THE MINING JOURNAL.

Sir.—I beg to state that I have inspected the "mortgage book" of the "Southampton Dock Company," and I there see that they have received, prior to the 31st August last, but one sum of 700/- from one individual, and no more. I think this bears out the statement of your correspondent, who signs "T. B.," in your Journal.

Nov. 21. AN UNFORTUNATE SHAREHOLDER.

SOUTHAMPTON DOCK COMPANY.

TO THE EDITOR OF THE MINING JOURNAL.

Sir.—In your Journal of Saturday last, there appeared a letter from Mr. George Saintsbury, the secretary of the above company, and appended to it was a note of yours, by which it appears that you very properly expect our correspondents (the correctness of whose statements Mr. Saintsbury impugns) to reply to same. Mr. Saintsbury's letter having reached you too late in the week, then to ascertain the correctness or incorrectness of your correspondent's remarks. In the first place, Mr. Saintsbury says the directors have not discharged Mr. Giles—granted, as I stated in my last, and I would not rob them of the merit of retaining him. Secondly, Mr. Saintsbury says that three of the dock walls have "not fallen in, and that to repair them will not cost so much as £5,000." Granted that three of them have only partially protruded from the straight line, at which they were originally built. Mr. Saintsbury affirms, that the cost of securing them will come to less than 25,000/-; yet I cannot grant, merely upon the very guarded assertion of Mr. Saintsbury, "that the cost of securing them has been estimated, and the work offered to be completed, at considerably less than half that sum."

The shareholders by this time ought to have the knowledge—and the dearly-bought knowledge too—that neither estimating or offering to complete, are equivalent to contracting at a price, with security guaranteed by bondsmen in case of failure. Mr. Saintsbury knows this well, hence I suspect his use of the vague expression—"the cost of securing them is estimated, and the work has been offered to be completed," etc. What I care to know is this, and this only, can Mr. Saintsbury point out the contractor, who, at considerably less than the half of 25,000/-, would make the walls end quays of the Southampton Dock as sound and firm as the London Docks? that is, as sound and firm as they ought to have been on the day they were built. Why, I hear the way they are to be secured is by "tying"—ties allied to what I should like to know? But, for argument, grant that such can be done effectively (which I do not believe) why are the proprietors to pay for it, when the directors neglect, in not taking proper security from Messrs. M'Key and Hadlow, is the cause of these being no "bondsmen" to whom to look for the money?—this, too, without even an excuse on the part of the directors, who go on taking their salaries, and do not condone to call a meeting of the proprietary, although they admit that the walls have partially protruded, &c. / The only remaining point on which to answer Mr. Saintsbury, is one I cannot touch upon but with feelings of regret; however, I can only, by way of apology, remind him of the old Spanish proverb—"No hay amistad para comprendernos sin enemigos," and proceed with my subject.

In a former letter, having stated that the directors, "to gain a temporary end, appeared to have deviated materially from the truth," by asserting in their report of the 31st of August last, "that they had received and accepted tenders for loans on their debenture bonds, under their Act of Parliament," when, in truth, and in fact, they had only received one sum of 200/-, and that from one individual near Shaftesbury. Mr. Saintsbury, in his letter, contradicts my statement, by asserting that "that statement of the directors is strictly true." To have saved myself the trouble of writing the present, I wish that Mr. Saintsbury had shown in what manner he is "strictly true;" for again have I this week, in the presence of a gentleman who is a huge shareholder in the company, examined the mortgage book, in which it is required that all mortgages shall be entered within fourteen days of their being granted, and it appears that the mortgage alluded to for 200/- is the only one granted previous to 31st August—in fact, it is the only one granted before or since, excepting one dated 3d. of the present month, for 500/-.

Your Journal will, I trust, be always open for the elucidation of truth; therefore, the present difference with Mr. Saintsbury may be easily explained, as upon matters of opinion parties may fairly agree to differ; but with gravitas, I repeat that there ought not to be any difference so to "facts"—at all events, I will not offer myself to expose in a doubtful light, however Mr. Saintsbury says, "I am instructed to inform you that the statement of the directors is strictly true," without even attempting to show how the same could be proved.

In conclusion, I beg to say, these observations are not made to disparage Mr. Saintsbury, but to draw from him such "explosions" as to give of a strong contradiction; so, on the one hand, having asserted that the directors' report of the 31st of August last was "strictly true," and, on the other hand, upon the evidence of the "mortgage book," in his own keeping, that the same appears untrue, and that I have a right to judge from the mortgage-book. I need only mention that it is legal, under the 18th section of the Act, expressly that shareholders and mortgagors may have a means of ascertaining to what extent the company's works are mortgaged, and so show, at any time, that the 18th section of the Act has not been disregarded, as it stands, "that the said company shall not, in any event, have any mortgage, encumbrance, or

charge or arrears, in such manner, or to such extent, as that more than the principal sum of 150,000/- in the whole shall be owing, at any one time, on mortgage, or assignment of, or as a charge upon such undertaking." Under all the circumstances, I feel assured Mr. Saintsbury will explain—he owes it to himself.

T. R.

LAW INTELLIGENCE.

MR. BANKS'S PATENT—RAILWAY WHEELS.

VICE-CHANCELLOR'S COURT—NOV. 24.

GOOCH AND OTHERS v. BANKS.—This was an application for an injunction to restrain the defendant from the further use of his patent mode of clearing the tires of railway wheels. The plaintiff went on the ground that their patent, previously obtained, gave them the exclusive use of steel for that purpose; but the facts of the case, as stated by the plaintiff's counsel, were not such as would warrant his Honour to grant an injunction.—Application, therefore, refused.

NEW PATENTS FOR NOVEMBER.

Sir John Scott Little, Chelsea, for certain improvements in roads.

Richard Evans, wire merchant, Liverpool, for certain arrangements connected with the circulation of steam employed in pipes or tubes for producing heat, and the operation of such arrangements to various purposes.

John Rotkow, grocer, Great Bolton, for a certain composition and preparation to promote the ignition and combustion of coke, coal, and other combustible substances, in stoves, furnaces, and grates.

John Spinks, jun., gentleman, John street, Bedford-row, for an improved apparatus giving elasticity to certain parts of railway and other carriages requiring the same.

Charles Smith, Newcastle-street, Strand, for improvements in the manufacture and application of bricks, tiles, and other plastic articles of surfaces, and for compositions to be used with, in, and about the same, for building and other useful purposes.

Henry Baader, engineer, North-street, Shadwell-street, for certain improvements in steam-engine boilers and furnaces, and in the methods of feeding and working the same; as also in the machinery for applying steam-power to propelling purposes.

THE TALACRE MINE—ALD. THOMAS WOOD.

On Saturday a full committee of miners assembled at Gwalia, for the purpose of determining upon the most advisable course of proceeding to be pursued relative to the inquiry into the charges made against Alderman Thomas Wood.—Mr. Wroe attended as the advising friend of Ald. Thomas Wood.—Ald. Brown was unanimously called to the chair.—At the desire of Ald. Wood the doors were thrown open, and a great many strangers were present during the proceedings of the committee.—The CHAIRMAN said that he had, since the court of miners' election, a great deal upon the mind of the investigation, and his anxiety was naturally increased by his appointment to the situation of chairman. The committee would proceed temperately and dispassionately in the investigation, without making any allusion to what had already occurred. They were not there in the character of accusers, they brought no charge whatever

